



121203 Please type a plus sign (+) inside this box



PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

2. Applicant claims small entity status.
See 37 CFR 1.27.

3. Specification [Total Pages 17]
(preferred arrangement set forth below)
- Descriptive title of the invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. Drawing(s) (35 U.S.C. 113) [Total Sheets 3]

5. Oath or Declaration [Total Pages 2]

a. Newly executed (original or copy)
b. Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6. Application Data Sheet. See 37 CFR 1.76

Attorney Docket No. 8836-140 DIV (IE 10178-US)

First Inventor Jin-Hwa Heo

Title Semiconductor Device Having Trench Isolation

Express Mail Label No. EV 413369930US

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)

a. Computer Readable Form (CRF)

b. Specification Sequence Listing on:
i. CD-ROM or CD-R (2 copies); or
ii. paper

c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))

10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney

11. English Translation Document (if applicable)

12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations

13. Preliminary Amendment

14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)

15. Certified Copy of Priority Document(s) (if foreign priority is claimed)

16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17. Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP)

of prior application No. 09 990,740

Prior application information:

Examiner Blum, David S.

Group Art Unit: 2813

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input type="checkbox"/> Customer Number or Bar Code Label	(Insert Customer No. or Attach bar code label here)					or <input type="checkbox"/> Correspondence address below
Name	Frank Chau, Esq.					
	F. CHAU & ASSOCIATES, LLP					
Address	1900 Hempstead Turnpike					
City	East Meadow	State	New York	Zip Code	11554	
Country	USA	Telephone	516-357-0091	Fax	516-357-0092	
Name (Print/Type)	Thomas W. McNally		Registration No. (Attorney/Agent)	48,609		
Signature			Date	12/20/2003		

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

15325 U.S. PTO
10/734354

121203

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FEE TRANSMITTAL

for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 770.000)

Complete if Known

Application Number	
Filing Date	December 12, 2003
First Named Inventor	Jin-Hwa Heo
Examiner Name	
Art Unit	
Attorney Docket No.	8836-140 (IE 10178-US)

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

 Deposit Account:

Deposit Account Number 50-0679
Deposit Account Name F. Chau & Associates, LLP

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee		770.00	
1002 330	2002 165	Design filing fee			
1003 520	2003 260	Plant filing fee			
1004 750	2004 375	Reissue filing fee			
1005 160	2005 80	Provisional filing fee			
SUBTOTAL (1) (\$ 770.00)					

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	8	Extra Claims	Fee from below	Fee Paid
Independent Claims	1	-20** = 0	X 18 = 0	= 0
Multiple Dependent		- 3** = 0	X 86 = 0	= 0
			290	= 0

Large Entity	Small Entity	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$ 0)		

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Thomas W. McNally	Registration No. (Attorney/Agent)	48,609	Telephone 516-357-0091
Signature				

Date 12 Decemb 2003

WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PATENT

Atty. Docket No. 8836-140 DIV (IE10178-US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAIL STOP PATENT APPLICATIONS
Commissioner for Patents
PO BOX 1450
Alexandria VA 22313-1450

APPLICATION FEE TRANSMITTAL

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): Jin-Hwa Heo, Soo-Jin Hong

For: SEMICONDUCTOR DEVICE HAVING TRENCH ISOLATION LAYER
AND A METHOD OF FORMING THE SAME

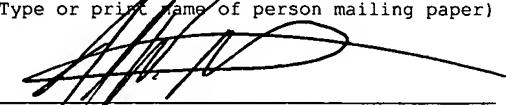
This application is a:

Continuation
 Continuation-In-Part (CIP)
 Divisional

of co-pending U.S. application Serial No. 09/990,740
filed on November 16, 2001

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this Application transmittal and the documents referred to as enclosed are being deposited with the United States Postal Service on this date December 12, 2003 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV 413369930US addressed to: Mail Stop Patent Application, Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450.

Thomas W. McNally
(Type or print name of person mailing paper)

(Signature of person mailing paper)

Enclosed are:

12 page(s) of specification

1 page(s) of Abstract

4 page(s) of claims

3 sheets of drawings formal informal

2 page(s) of Declaration and Power of Attorney
(copy as filed in co-pending application no.
09/990,740, filed November 16, 2001).

Certified copy of applications

<u>Country</u>	<u>Appln. No.</u>	<u>Filed</u>

from which priority under Title 35 United States Code, § 119
is claimed

is enclosed.

will follow.

original filed in co-pending application no.
09/990,740 filed November 16, 2001

Additional papers enclosed:

Preliminary Amendment

Information Disclosure Statement

Form PTO-1449

Other

Fee Calculation (37 C.F.R. §1.16)

For	Number Filed	Number Extra	Rate	Basic Fee
				<u>\$770.00</u>
Total				
Claims*	8	-20 = 0	x \$ 18.00	\$.00
Independent				
Claims	1	-3 = 0	x \$ 86.00	\$.00
Multiple	[] yes	Add'l. Fee	\$290.00	\$
Dependent				
Claims	[X] no	Add'l. Fee	None	= \$.00
				TOTAL <u>\$770.00</u>

- Verified Statement of "Small Entity" Status Under 37 C.F.R. § 1.27 [] is enclosed, [] was filed in parent application. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith \$.00.
- Please charge fee of \$ For recording the attached Assignment by Credit Card Payment Form PTO-2028 enclosed herewith.
- Please charge fee of **\$770.00** to cover the filing fee by Credit Card Payment Form PTO-2038 enclosed herewith.
- Charge fee to Deposit Account No. 50-0679 **TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.**

* Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor.
TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

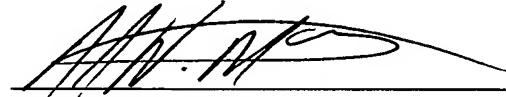
Relate Back - 35 U.S.C. § 120

Amend the specification by inserting before the first line the sentence:

"This is a [] continuation [] continuation-in-part
[X] divisional of copending application Serial No.
09/990,740, filed November 16, 2001

The prior application is assigned of record to
Samsung Electronic Co., LTD.
recorded on November 16, 2001 Reel 012323, Frame 0222.

Date: 12 December 2003



SIGNATURE OF ATTORNEY
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FC/TWM:mel